

## Appendix E

### Photographs and X-ray radiographs of the V-groove wet welds

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## E.1 Pictures of the V-groove wet welds

### E.1.1 On A36 Steel



(a)



(b)

Figure E.1. (a) V-groove wet weld deposited with E6013 electrode type on A36 steel at 50 m and (b) its radiographic image.



(a)



(b)

Figure E.2. (a) V-groove wet weld deposited with E6013 electrode type on A36 steel at 100 and (b) its radiographic image.



(a)



(b)

Figure E.3. (a) V-groove wet weld deposited with E7024 electrode type on A36 steel at 50 m and (b) its radiographic image.



(a)



(b)

Figure E.4. (a) V-groove wet weld deposited with E7024 electrode type on A36 steel at 100 m and (b) its radiographic image.



### E.1.2 On A572 Gr. 50 Steel



(a)



(b)

Figure E.5. (a) V-groove wet weld deposited with E6013 electrode type on A572 Gr. 50 steel at 50 m and (b) its radiographic image.



(a)



(b)

Figure E.6. (a) V-groove wet weld deposited with E6013 electrode type on A572 Gr. 50 steel at 100 m and (b) its radiographic image.



(a)



(b)

Figure E.7. (a) V-groove wet weld deposited with E7024 electrode type on A572 Gr. 50 steel at 50 m and (b) its radiographic image.





(a)



(b)

Figure E.8. (a) V-groove wet weld deposited with E7024 electrode type on A572 Gr. 50 steel at 100 m and (b) its radiographic image.

### E.1.3 On API 5L Gr. B



(a)

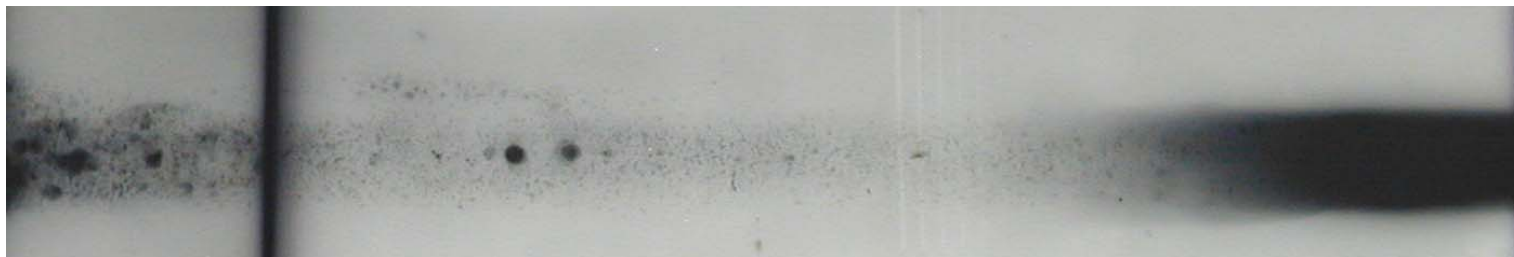


(b)

Figure E.9. (a) V-groove wet weld deposited with E6013 electrode type on API 5L Gr. B steel at 50 m and (b) its radiographic image.



(a)



(b)

Figure E.10. (a) V-groove wet weld deposited with E6013 electrode type on API 5L Gr. B steel at 100 m and (b) its radiographic image.



(a)



(b)

Figure E.11. (a) V-groove wet weld deposited with E7024 electrode type on API 5L Gr. B steel at 50 m and (b) its radiographic image.





(a)



(b)

Figure E.12. (a) V-groove wet weld deposited with E7024 electrode type on API 5L Gr. B steel at 100 m and (b) its radiographic image.